





VARIABLE RATE CDMA TRANSMISSION POWER CONTROL SYSTEM

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Abstract of JP11017646

PROBLEM TO BE SOLVED: To attain transmission power control with high accuracy, suitable for variable rate transmission without deteriorating the transmission quality.
SOLUTION: An E_b/I_0 calculation circuit 11 calculates an E_b/I_0 value which is a ratio of the signal power E_b per but for each bit rate to an interference power I_0 per 1 Hz, based on the reception base band signal r_s from a reception processing section 10. A maximum value detection section 16 detects a maximum value from the E_b/I_0 value. A comparator section 17 compares the maximum E_b/I_0 value with an object E_b/I_0 value. In the case that the maximum E_b/I_0 value is larger than the object E_b/I_0 value, transmission power is reduced, and when the maximum E_b/I_0 value is lower than the object E_b/I_0 value, the transmission power is increased to output a transmission power control bit to a multiplexer section 18, where TPC bits and transmission data td are multiplexed, multiplexed data from a transmission section 19 are modulated, as well as frequency converted and power based on the TPC bit is used for the transmission.

